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22 July 1954

MEMORANDUM FOR: CIRCULATION**SUBJECT : Swimmer's Infrared Headlight**

1. In the past, interest has been expressed in equipment which would assist in the clandestine location and pick-up of a swimmer by a small boat during a maritime operation. The requirement for such a piece of equipment evolved during a recent maritime training course, in the form of an infrared source, visible 360° in the horizontal direction, out to a few hundred yards through a T-1 or T-3 Image Metascope or an AN/C-3 type viewer.

2. The attached sketch shows the simple device which meets this requirement. It can readily be improvised in the field if plastic infrared filter material is available.

3. The light bulb used is one taken from a Mae West life jacket. A wide-angle cone of XRX-55 plastic infrared filter material was fitted over the bulb and held by the platform into which the bulb is screwed. A 3/8"x 4" bracket was then riveted to the bottom of the light case. This bracket was bolted through a bathing cap into a 4" aluminum disc, pounded into a bowl shape to fit the top of the head.

Att.

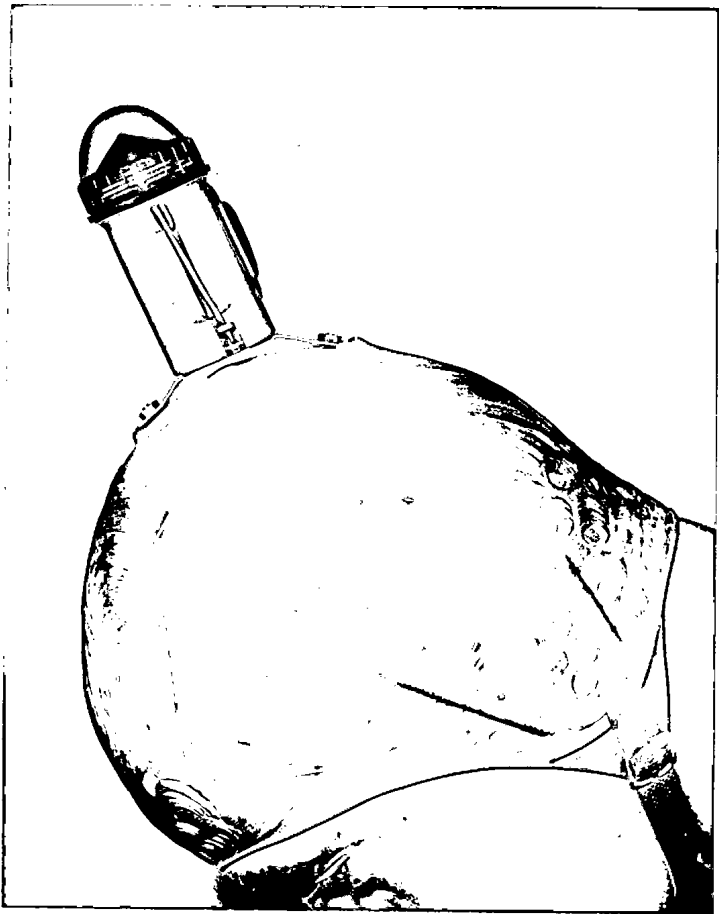
Distribution: Orig. only

50X1

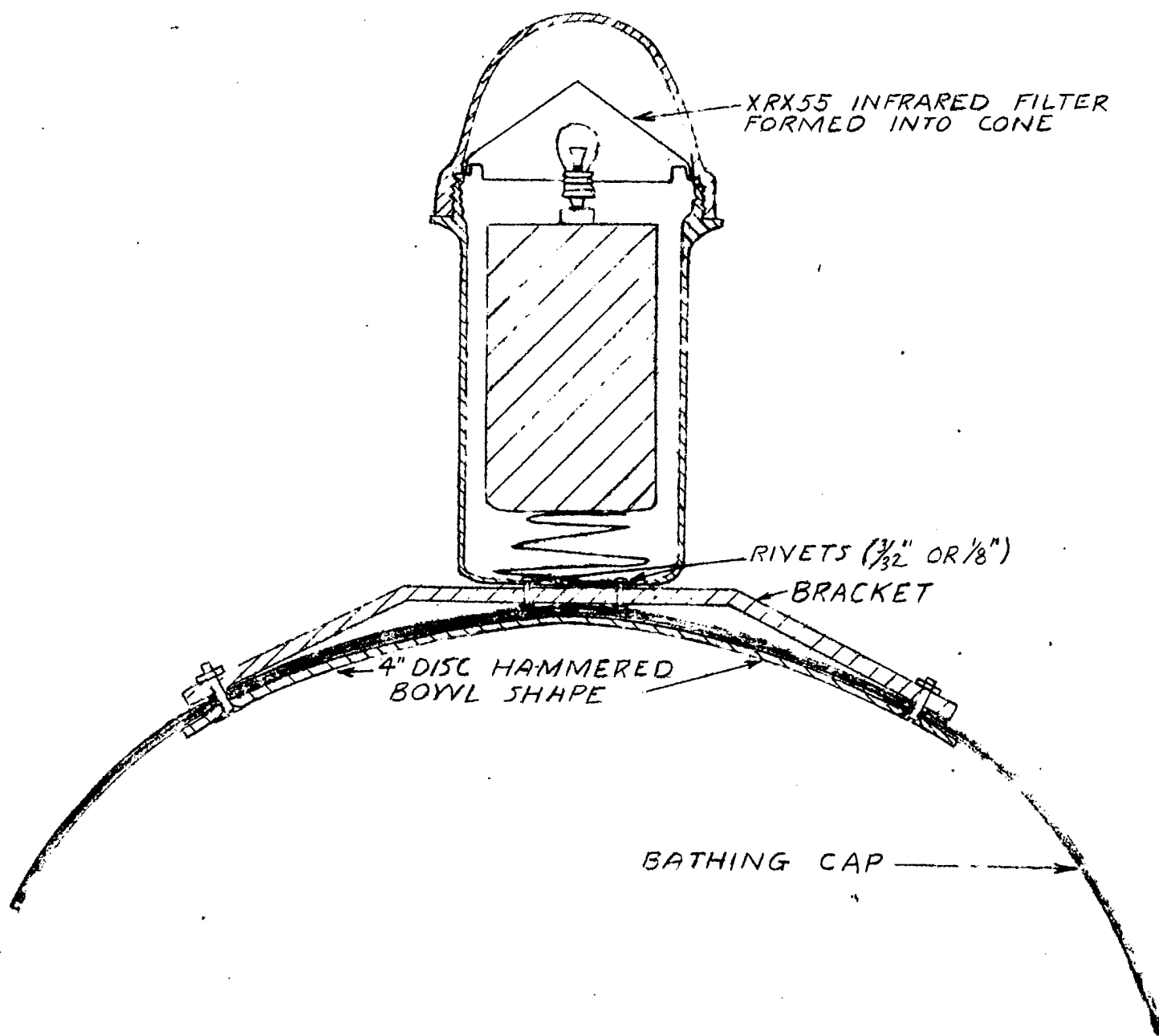
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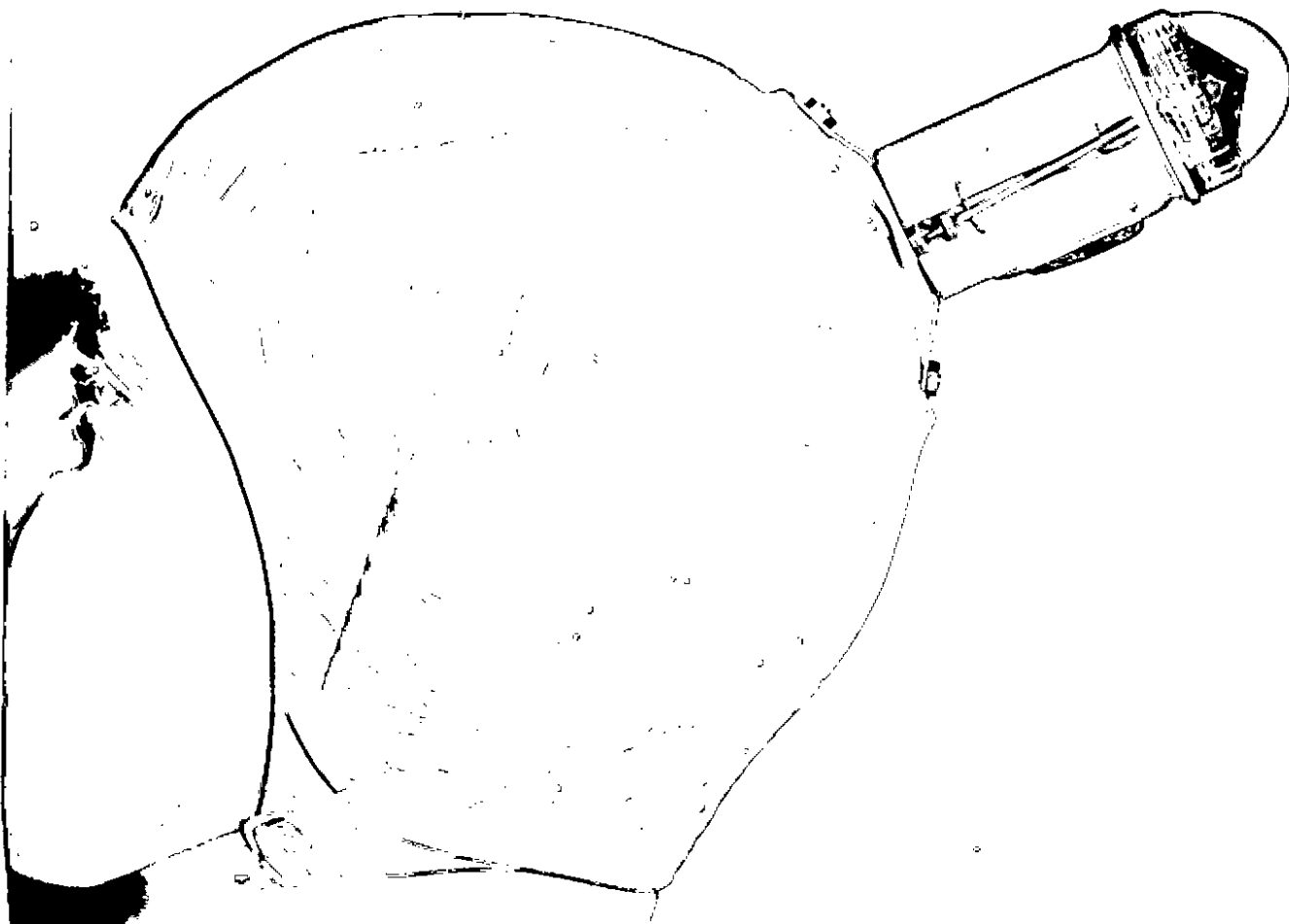
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